CyberPower™

User's Manual

PowerPanel Shutdown Service

Graceful Shutdown and Notification service to ensure power protection of your computer

Revision 1.1

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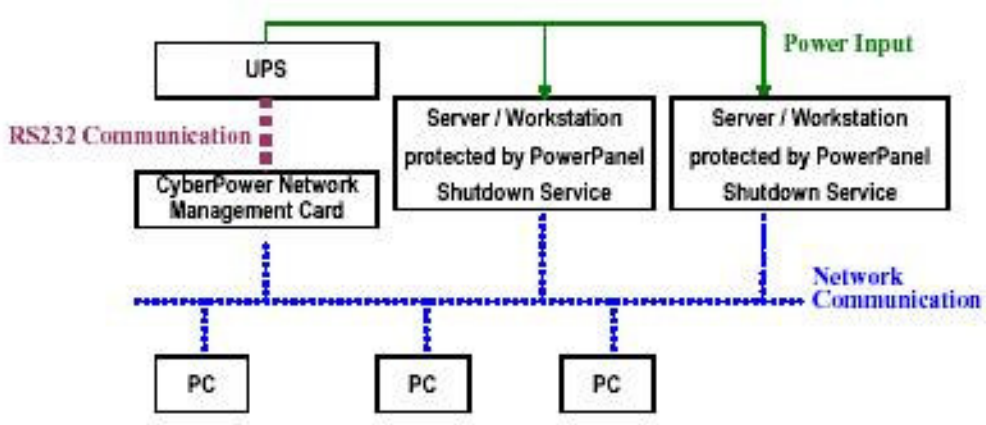
INTRODUCTION

Overview

CyberPower Network Management Card allows UPS to be managed, monitored, and configured via Internet Browser. Servers/workstations protected by UPS must be installed with PowerPanel Shutdown Service to enjoy extra value-packaged features.

Application:



Features

CyberPower Network Management System:

- Remote management and configuration of UPS via Web Browser or NMS
- Supports TCP/IP, UDP, SNMP, HTTP protocol
- Automatic events notification via SNMP Trap
- Flexible Event Action setting
- Auto-shutdown to protect servers/workstations from data loss due to power failure.
- Schedule shutdown/startup/reboot of UPS remotely
- Event logging to trace UPS operation history
- SNMP MIB provided
- 10Mbps fast Ethernet compatible
- Quick installation and user friendly interface
- Security management provided.

PowerPanel Shutdown Service:

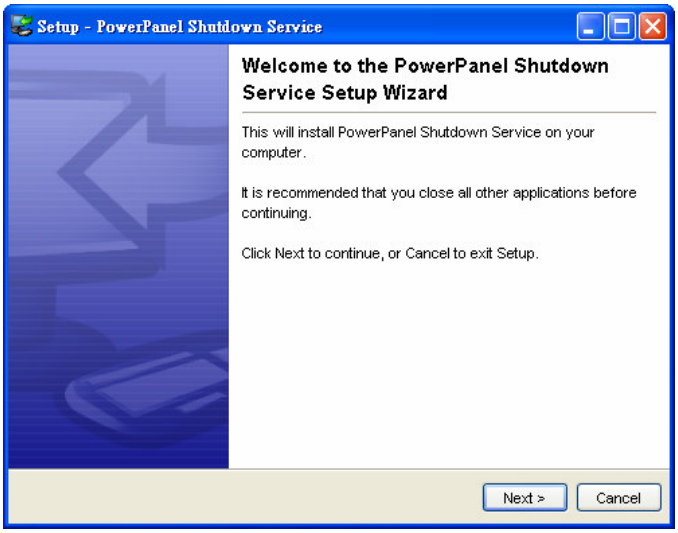
- UPS status notification
- Define recipients of event notification
- Safe shutdown operation
- Configure graceful shutdown of the protected server/workstation.
- User Programmable Command File
- In event action section, we provide flexibility for addition of your own command file to performance specific action.

INSTALLATION GUIDE

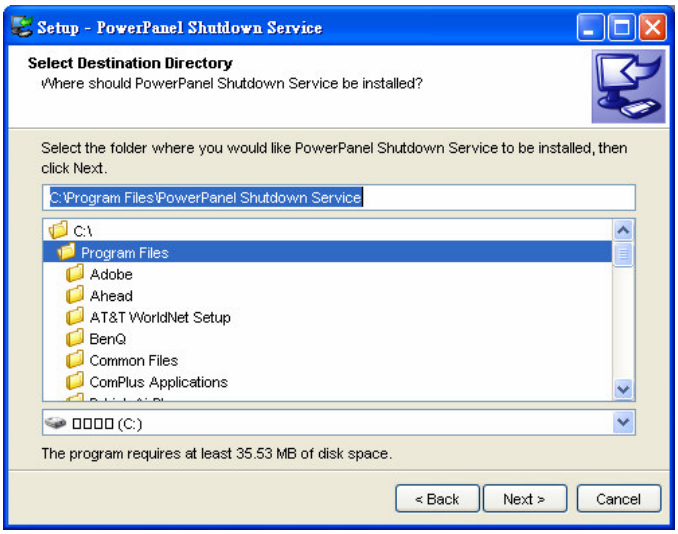
Step 1. Install PowerPanel Shutdown Service software.

Insert PowerPanel Shutdown Service CD to the server or workstation. The installation wizard will guide you through the following setup process:

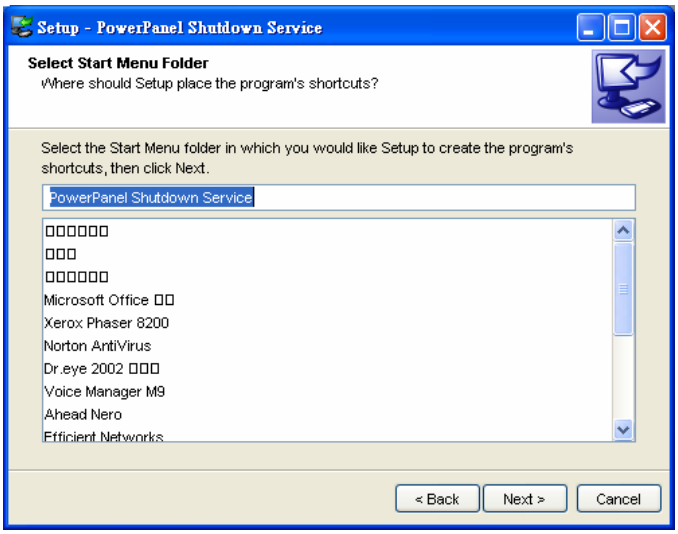
1. Click **Next** to continue Setup. It is recommended that you close all other applications before continuing.


Setup - PowerPanel Shutdown Service
Welcome to the PowerPanel Shutdown Service Setup Wizard
This will install PowerPanel Shutdown Service on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

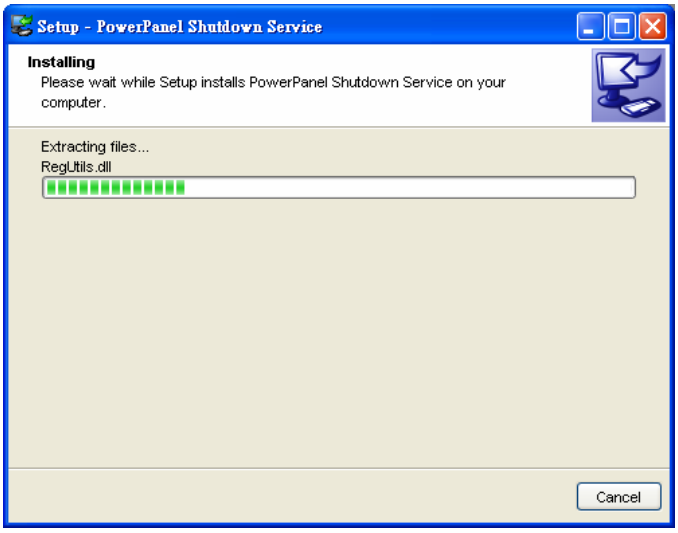
2. Select the folder where you would like the PowerPanel Shutdown Service to be installed, and then click **Next** to continue.



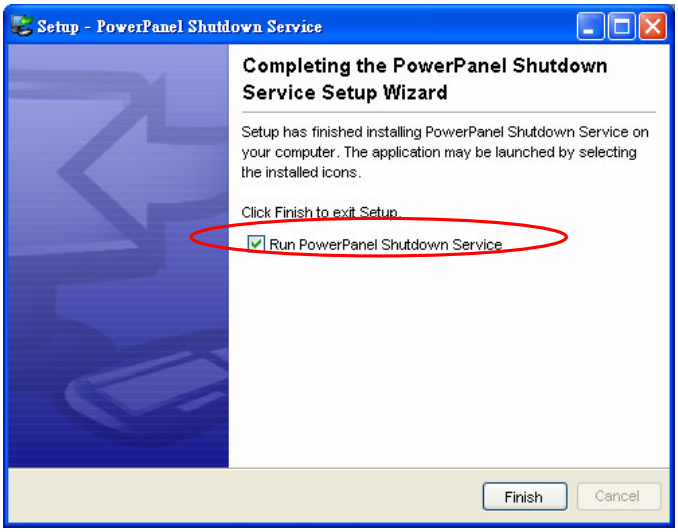
3. Select the Start Menu folder in which you would like Setup to create the program's shortcut, then click **Next** to continue.


Setup - PowerPanel Shutdown Service
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Select the Start Menu folder in which you would like Setup to create the program's shortcuts, then click Next.
PowerPanel Shutdown Service
Microsoft Office
Xerox Phaser 8200
Norton AntiVirus
Dr.eye 2002
Voice Manager M9
Ahead Nero
Efficient Networks
< Back
Next >
Cancel

4. Wait until the PowerPanel Shutdown Service is finished installation.



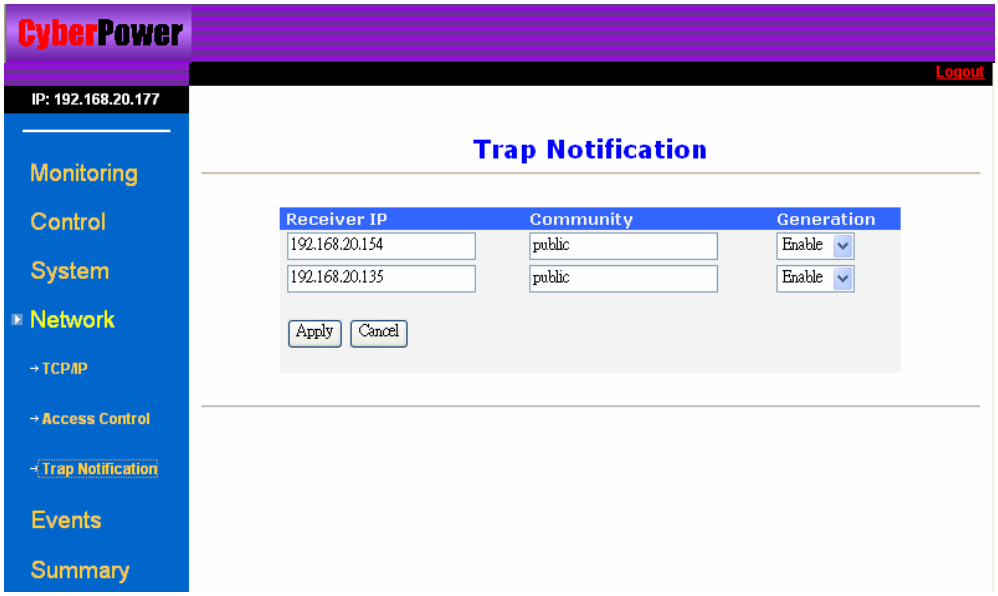
5. Click **Finish** to exit Setup. By default, the computer will enter the web browser of PowerPanel Shutdown Service immediately after **Finish** is clicked. Refresh the check box of Run PowerPanel Shutdown Service if you don't want to enter the web browser immediately.


Setup - PowerPanel Shutdown Service
Completing the PowerPanel Shutdown Service Setup Wizard
Setup has finished installing PowerPanel Shutdown Service on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Run PowerPanel Shutdown Service
Finish
Cancel

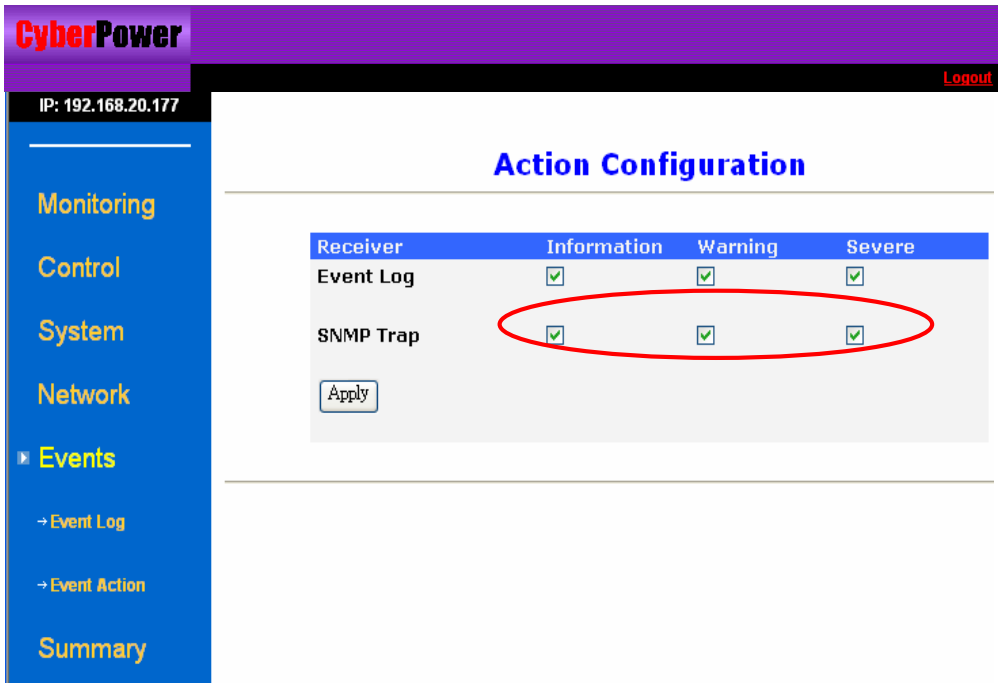
Step 2. Configure Trap Notification and Event Action on CyberPower Network Management System.

(The Installation of CyberPower Network Management Card please refer to Appendix 1)

1. Open the Web Browser and enter the IP address of CyberPower Network Management System. (The procedures to establish the IP address please refer to Appendix 2.)
2. Type the username and the password on the login screen to enter the configuration page. By default, the username is “cyber” and the password is “cyber”.
3. Click on **Trap Notification** page, selected from **Network** menu.
4. Enter the **IP address** of the server or workstation that protected by PowerPanel Shutdown Service. Please note only two servers or workstations are allowed.
5. Setup the **Community** of Trap Notification, maximum of 15 characters and then click **Apply** to activate the settings. The default value is “public”.



6. Enter **Event Action** page, selected from **Events** menu.
7. Ensure **Informational**, **Warning**, and **Critical** notification are enabled for SNMP Trap.



Step 3. Enter PowerPanel Shutdown Service.

Option 1:

1. Click **Control PowerPanel Shutdwon Service** selected from PowerPanel Shutdown Service folder from the Program Menu of Windows Start Menu.

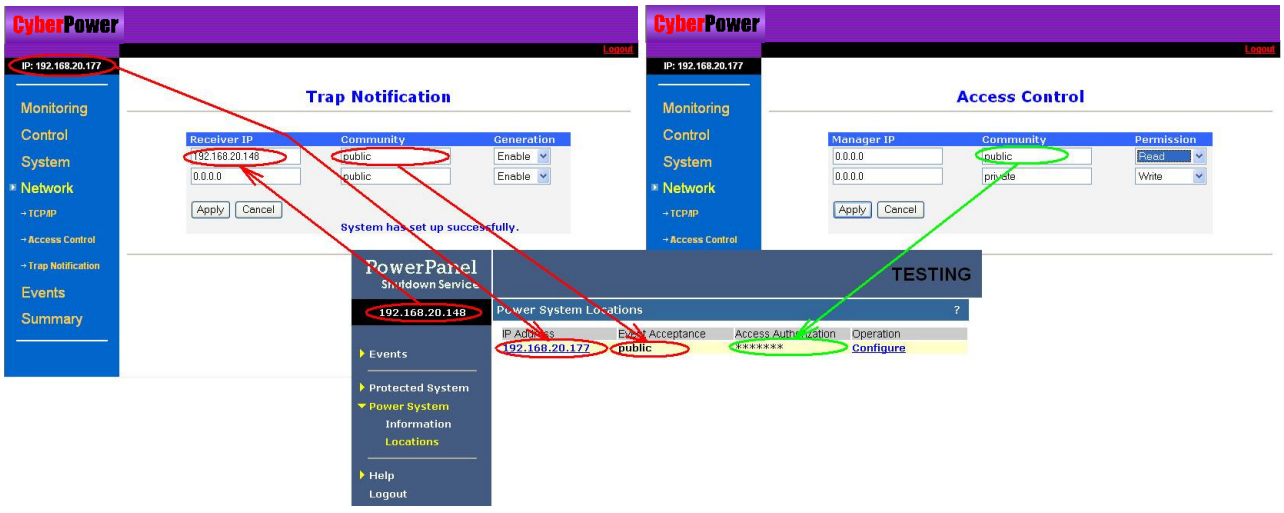
2. Put the default username “cyber” and the default password “cyber” on the login screen.

Option 2:

1. Open the Web Browser and enter the IP address of the server or workstation protected by PowerPanel Shutdown Service suffixed with a port number **:3052**. For example, if the IP address of the server / workstation is 192.168.20.2, enter http://192.168.20.2:3052.
2. Put the default username “cyber” and the default password “cyber” on the login screen.

Step 4. Establish the connection between PowerPanel Shutdown Service and CyberPower Network Management System

1. Enter **Location** page selected from **Power System** menu.
2. Fill in the **IP Address, Event Acceptance,** and **Access Authorization**.
   - The IP Address of Power System could be searched on CyberPower Network Management System page. Click **Configure** to establish the IP Address.
   - Confirm the **Event Acceptance** string to be the same with Trap Notification **Community** of **Trap Notification** from **Network** menu on the CyberPower Network Management System. The string is “public” by default. If the default string is different to **Community** of **Trap Notification**, please click **Configure** to revise it.
   - Confirm the **Access Authorization** string to be the same with must be the same with the **Community** string of **Access Control** on CyberPower Network Management System. The string is “public” by default. If the default string is different to **Community** of **Access Control**, please click **Configure** to revise it.



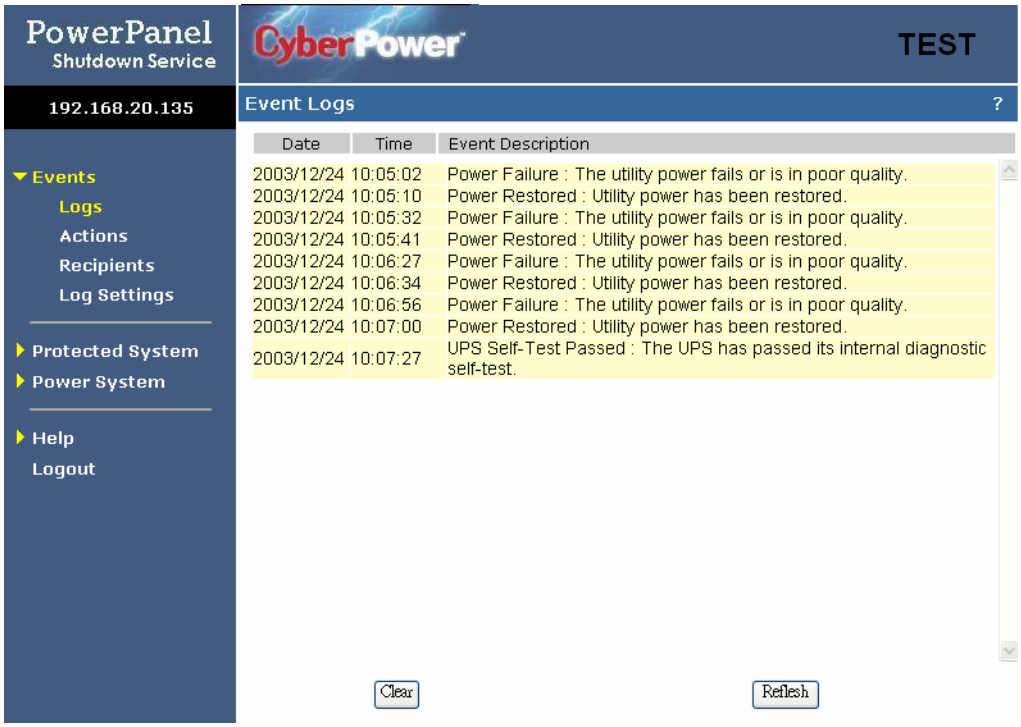
3. Click **Apply** to make all changes become effective.

CONFIGURATION INSTRUCTION

Events

Logs

The **Logs** page displays the most recent UPS events in chronological order.
To delete the event log, click **Clear**. The event logs can also be automatically cleared by the expiration date. By default, the event log expiration date is one week. Log Settings serves to configure the expiration date of the event logs.
Click **Refresh** to update the contents of the event log.


PowerPanel
Shutdown Service
192.168.20.135
Events
Logs
Actions
Recipients
Log Settings
Protected System
Power System
Help
Logout
CyberPower
TEST
Event Logs
?
Date
Time
Event Description
2003/12/24 10:05:02 Power Failure : The utility power fails or is in poor quality.
2003/12/24 10:05:10 Power Restored : Utility power has been restored.
2003/12/24 10:05:32 Power Failure : The utility power fails or is in poor quality.
2003/12/24 10:05:41 Power Restored : Utility power has been restored.
2003/12/24 10:06:27 Power Failure : The utility power fails or is in poor quality.
2003/12/24 10:06:34 Power Restored : Utility power has been restored.
2003/12/24 10:06:56 Power Failure : The utility power fails or is in poor quality.
2003/12/24 10:07:00 Power Restored : Utility power has been restored.
2003/12/24 10:07:27 UPS Self-Test Passed : The UPS has passed its internal diagnostic self-test.
Clear
Reflesh

Actions

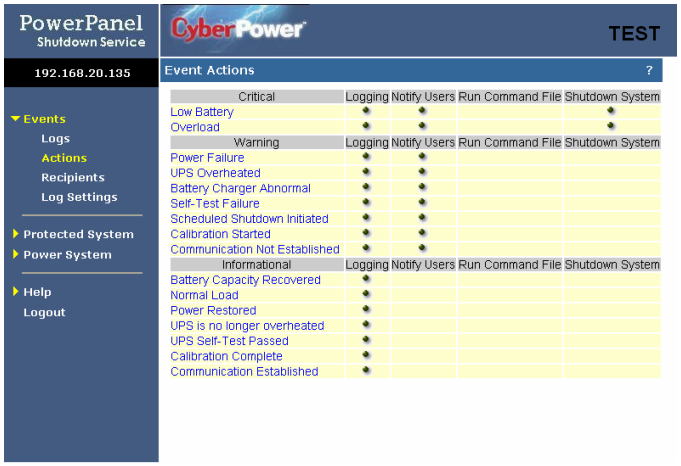
The Event Actions lists the actions taken by the PowerPanel Shutdown Service when the UPS event occurs.

The UPS events are distinguished into three levels: **Critical**, **Warning**, and **Informational**. The Critical events that may cause the UPS to stop supplying power to its connected equipments require your immediate attention. The Warning events alert you to situations that should be monitored. The Informational events report data about the UPS's operation.

To read description of an event, click any event name or go to Events Description.

The possible actions for each event are **Logging, Notification, Run Command File** and **Shutdown**. To configure the possible actions, click the event name.

Note: To ensure PowerPanel Shutdown Service could work correctly, all options for the **SNMP Trap** notification configured from the **Event Action** page of the **CyberPower Network Management System** must be enabled.



Action Configuration

- **Logging**: To enable or to disable logging of an event. By default, all events are logged. To disable logging of an event, refresh the check of Enable Logging of Event.

- **Notification**: To manage the list of recipients who will be notified when the event occurs.
  - **Notify Local User**: To notify users who are login on local machine currently. Notify Local User is enabled by default for all critical events and warning events.
  - **Notify Specific User**: To notify users who are listed on the Recipients page, selected from the Event menu.
  - **Notify Users Connected with This Server**: to notify users who are accessing this server at present.
  - **Notify All Users**: To notify all users connected to the same domain or workgroup as this server.
  - **Enable Repeat Notifications**: To setup the interval for the periodical repeat of event notification. This configuration enables only for Critical Events and Warning Events, except the **Battery Charger Abnormal** event and the **Self-Test Failure** event.

- **Run Command File**: To configure running of a command file. The command file enables the computer to perform specific action before the OS is shutdown.
  - **Enable Command File Execution**: To check this box to enable the running of a command file prior to OS Shutdown.
  - **Choose Command File Name**: To choose the command file to execute. The command file must previously be saved in the folder “cmdfiles” under the PowerPanel Shutdown Service software installation folder, such as: C:\Program Files\PowerPanel Shutdown Service\cmdfiles.

- **Duration of Execution**: To configure the approximate execution time for the command file. The duration of execution should be within 60 minutes or available runtime, whatever comes first. If the execution time for the command file exceeds available runtime for regular shutdown service, the command file will stop running.

- **Shutdown**: Check this box to enable the PowerPanel Shutdown Software to start the shutdown activities. Go to **Shutdown Settings** page selected from the **Protected System** menu for further configuration.

  Note: Shutdown Command is applied by default when critical events occur.

  Click "**Apply**" at the bottom of the screen to confirm the changes of the entire configuration. Click "**Cancel**" to ignore all changes.

Event Description

Critical Events alert you very serious UPS condition that may cause the UPS shutdown shortly. A Critical Event requires your immediate attention and action.

- **Low Battery**: The UPS batteries become drained. Once low battery, the UPS unit will possibly shutdown in order to protect the batteries from total discharge.
- **Overload**: Load on the UPS has exceeded the certain amount of UPS capacity (VA / Watts). Once overload, the UPS unit will possibly shutdown in order to protect its connected equipments.

Warning Events report abnormal UPS condition. A Warning Event requires you to monitor the UPS.

- **Power Failure**: The utility power fails or is in poor quality. When power failure, the UPS is switched to battery operation.
- **UPS Overheated**: The UPS inner temperature is too high that may cause damage.
- **Battery Charger Abnormal**: The UPS battery charger has failed and the battery cannot be charged. When Battery charger abnormal occurs, the battery run time may be insufficient.
- **Self-Test Failure**: The result of UPS self-test is negative. UPS Self-Test allows the user to test the UPS without having to unplug the unit from the wall. When running the Self-Test, the UPS unit will switch to the battery power and the unit will beep. Self-Test Failure may result from UPS overload or insufficient battery power.
- **Scheduled Shutdown Initiated**: The Power System is ready to scheduled shutdown at three minutes later. The shutdown schedule is configured on the CyberPower Network Management System.
- **Calibration Started**: A UPS runtime calibration has been initiated. This event occurs when the UPS is on Deep Battery Test. When the test is performed, the UPS will go to battery power until the battery power becomes low, which allows user to estimate the battery runtime.
- **Communication Not Established**: Communication with the UPS has been lost or not established.

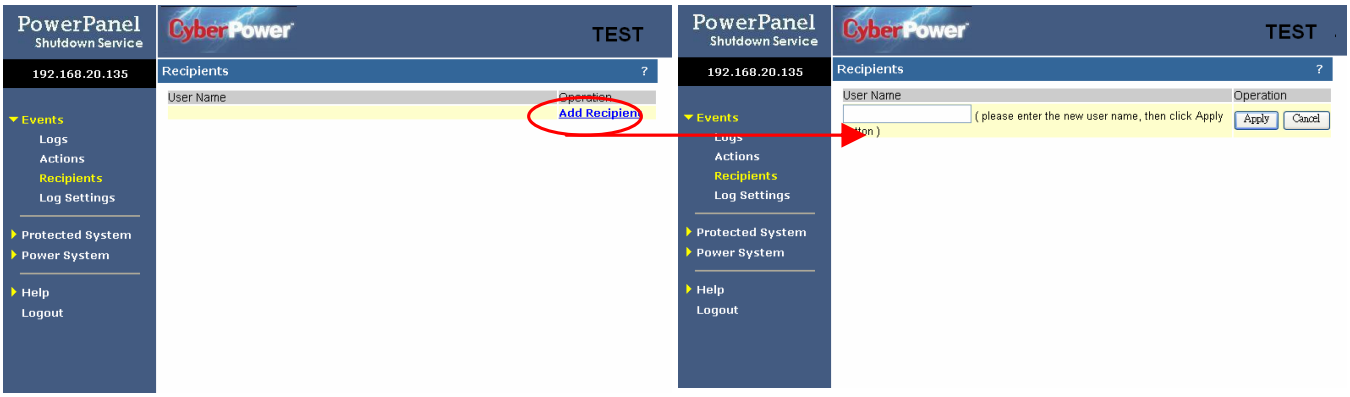
Informational Events posts general UPS condition.

- **Battery Capacity Recovered**: The UPS low battery condition is recovered. This event occurs only after **Low Battery** event had occurred.
- **Normal Load**: Load on the UPS back to normal load. This event occurs only after Overload event had occurred.
- **Power Restored**: Utility power has been restored, the UPS is no longer stay on battery operation. This event occurs only after **Power Failure** event had occurred.
- **UPS is no longer overheated**: The UPS inner temperature has descended to appropriate degree. This event occurs only after **UPS Overheated** event had occurred.
- **Calibration Complete**: UPS runtime calibration is completed. This event occurs only after **Calibration Started** event had occurred.
- **UPS Self-Test Passed**: The UPS has passed its internal diagnostic self-test.
- **Communication Established**: Communication to the UPS has been established. This event occurs only after **Communication Not Established** event had occurred.

Recipients

The Recipients page, displays users who will receive notification while event occurs.

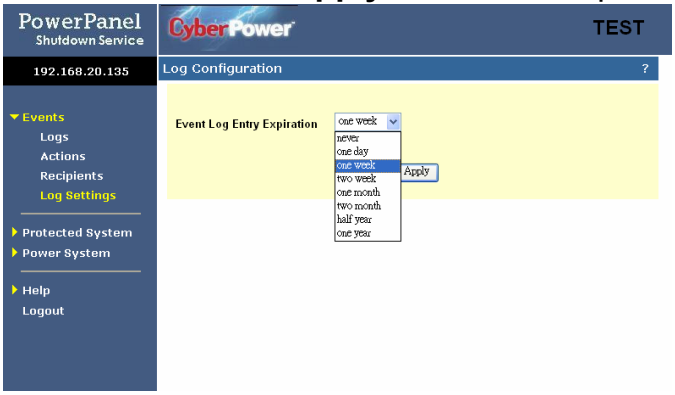
Click **Add Recipient** to enter the Edit Box. Fill up the username on Edit Box and then click **Apply** to confirm it or **Cancel** to ignore it. Click **Delete** Recipient to delete username from the list.



Log Settings

The **Log Settings** page allows configuration for Event Log Entry Expiration.

- **Event Log Expiration**: Specifies expiration date of the events in the Event Log. The expiration options are **never, one day, one week, two weeks, one month, two months, half year**, and **one year**. The default value is one week. Select one expiration date and then click "**Apply**" to have the option become active.

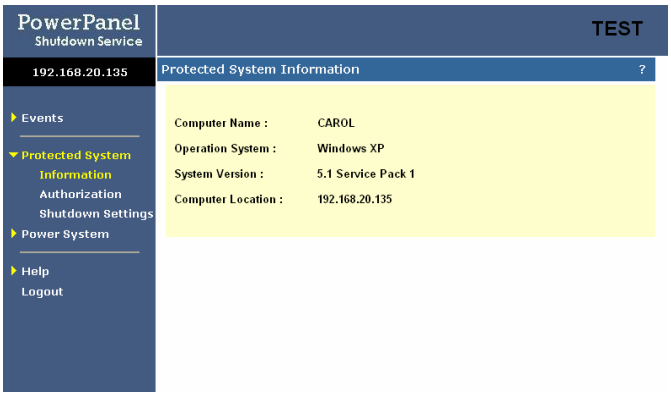


Protected System

Protected System is definded as the server or the workstation that is powered by Power System and protected by PowerPanel Shutdown Service.

Protected System Information

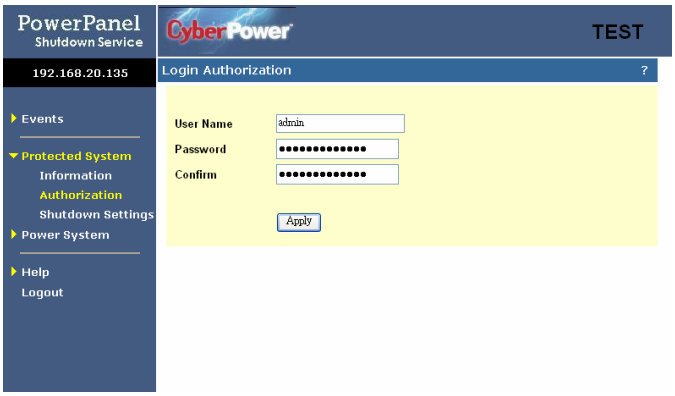
The **Information** page selected from **Protected System** menu displays the Computer Name, Operation System name, System Version of the Operation System, and the IP Address of the computer protected by PowerPanel Shutdown Service. The IP address of the computer is also displayed on the main menu.



Login Authorization

Login Authorization serves to establish or change the username and password used to login the PowerPanel Shutdown Service interface. The username and the password must be no more than 20 characters, no shorter than 3 characters. The default username is **cyber** and the password is **cyber**.

The PowerPanel Shutdown Service interface will automatically logout 3 minutes after the configuration page stays motionless.



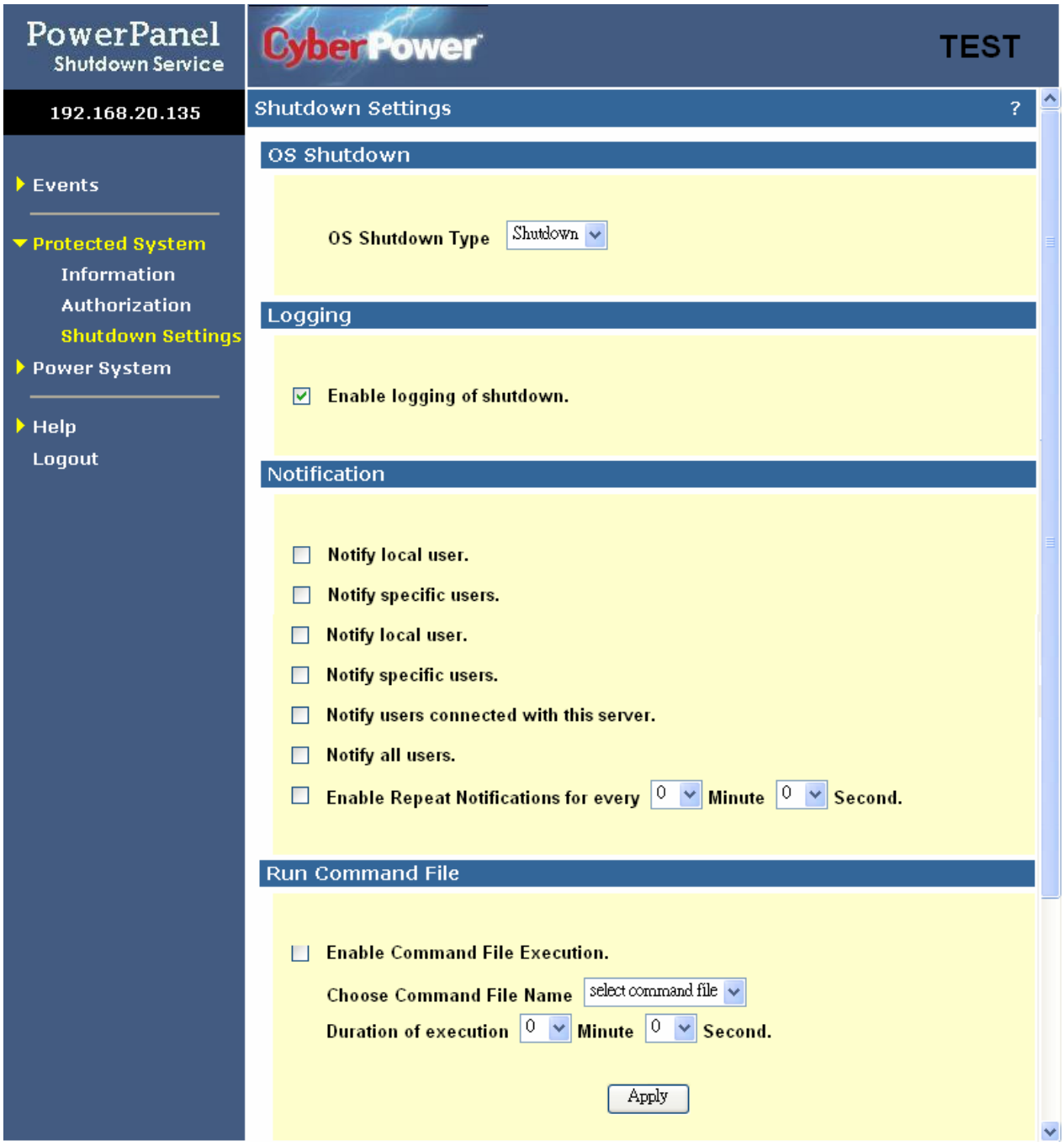
Shutdown Settings

Shutdown Settings provides configuration of the following shutdown parameters:

- **OS Shutdown**: Setup the type of the computer when the OS shutdown by PowerPanel Shutdown Service. Select **Shutdown** option or **Hibernation** option. The support of Hibernation option subjects to the computer specification.
- **Logging**: To enable or to disable logging of a shutdown event in **Event Logs**.
- **Notification**: To manage the list of recipients who will be notified when a shutdown event occurs.

- **Run Command File**: To configure the PowerPanel Shutdown Service to run a command before shutting down the OS.

The details about how to configure **Logging, Notification,** and **Run Command File**, please refer to Events / Action Configuration.

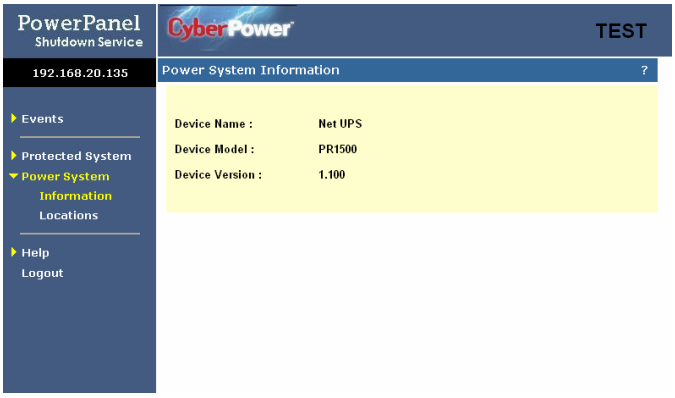


Power System

Power System is defined as the UPS or other Power electronic product that supplies power to the server or workstation protected by PowerPanel Shutdown Service.

Power System Information

The **Information** page selected from **Power System** menu displays Power System given name, model name, and version.



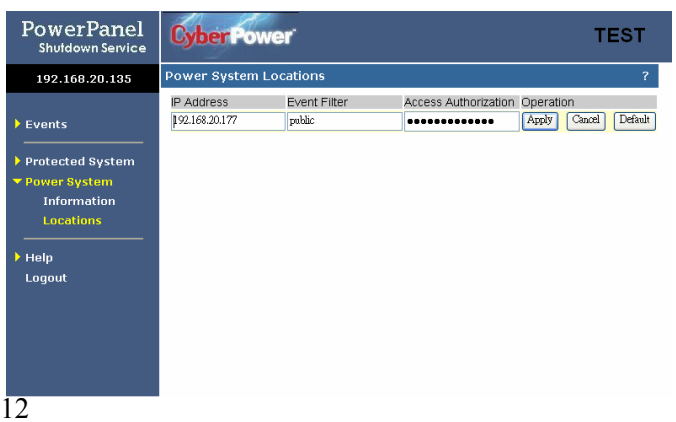
Power System Locations

The **Location** page serves to configure **IP Address, Event Acceptance**, and **Access Authorization** that interacts between Power System and PowerPanel Shutdown Service.

- **IP Address** displays the address of the Power System assigned on a computer network. Click the IP address to access to Power System management interface. Click **Configure** to establish or change the IP Address.
- **Event Acceptance** displays the same string of Trap Notification Community configured in advance on the CyberPower Network Management System. To ensure PowerPanel Shutdown Service to receive the Event from Power System, this Event Acceptance string must be configured.
- **Access Authorization** allows PowerPanel Shutdown Service to get information from the Power System. The Access Authorization must be the same with the Community of Access Control configured on the CyberPower Network Management System, which must be configured in advance, Otherwise, the **PowerPanel Shutdown Service** and the **Power System** will not be able to communicate.

Click **Configure** to enter the edit boxes for IP Address, Event Acceptance and Access Authorization.

- Click **Apply** to validate all change.
- Click **Cancel** to ignore all change and return to **Power System Locations** page.
- Click **Default** to restore default value of **Event Acceptance** and **Access Authorization**.



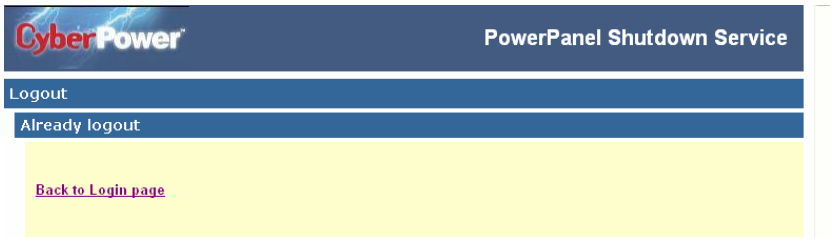
Help

Content

Help menu of PowerPanel Shutdown Service homepage configuration instruction. Click each name to see the instruction.

Logout

Click **Logout** to exit the PowerPanel Shutdown Service. The Shutdown Service will also automatically logout after the system stays motionless for 3 minutes.



Click **Back to Login page** to enter the **Login** page. Put the username and password of the protected system on the boxes and click **Login** to enter the PowerPanel Shutdown Service.